

5.0 References

Public Laws

Atomic Energy Act. 1954. As amended, Ch. 1073, 68 Stat. 919, 42 USC 2011 et seq.

Comprehensive Environmental Response, Compensation, and Liability Act. 1980. Public Law 96-510, as amended, 94 Stat. 2767, 42 USC 9601 et seq.

Resource Conservation and Recovery Act. 1976. Public Law 94-580, as amended, 90 Stat. 2795, 42 USC 6901 et seq.

Code of Federal Regulations

40 CFR 141. “National Primary Drinking Water Regulations; Radionuclides; Proposed Rule.” U.S. Environmental Protection Agency, *Code of Federal Regulations*.

40 CFR 143. “National Secondary Drinking Water Regulations.” U.S. Environmental Protection Agency, *Code of Federal Regulations*.

40 CFR 264, Appendix IX. “Ground-Water Monitoring List.” U.S. Environmental Protection Agency, *Code of Federal Regulations*.

40 CFR 265. “Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities.” U.S. Environmental Protection Agency, *Code of Federal Regulations*.

40 CFR 265.93(b) and (d). “Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities; Preparation, Evaluation, and Response.” U.S. Environmental Protection Agency, *Code of Federal Regulations*.

Revised Code of Washington

RCW 70.105. “Washington State Hazardous Waste Management Act.” *Revised Code of Washington*, Olympia, Washington.

Washington Administrative Code

WAC 173-160. “Minimum Standards for Construction and Maintenance of Wells.” *Washington Administrative Code*, Olympia, Washington.

WAC 173-200. “Water Quality Standards for Ground Waters of the State of Washington.” *Washington Administrative Code*, Olympia, Washington.

WAC 173-200-40. “Water Quality Standards for Ground Waters of the State of Washington; Criteria.” *Washington Administrative Code*, Olympia, Washington.

WAC 173-201A. “Water Quality Standards for Surface Waters of the State of Washington.” *Washington Administrative Code*, Olympia, Washington.

WAC 173-216. “Waste Discharge Permit Program.” *Washington Administrative Code*, Olympia, Washington.

WAC 173-220-40. “National Pollutant Discharge Elimination System Permit Program.” *Washington Administrative Code*, Olympia, Washington.

WAC 173-303-400. “Dangerous Waste Regulations; Interim Status Facility Standards.” *Washington Administrative Code*, Olympia, Washington.

WAC 173-303-645. “Dangerous Waste Regulations; Releases from Regulated Units.” *Washington Administrative Code*, Olympia, Washington.

WAC 173-303-645(9) and (11)(g). “Dangerous Waste Regulations; Releases from Regulated Units.” *Washington Administrative Code*, Olympia, Washington.

WAC 173-304. “Minimum Functional Standards for Solid Waste Handling.” *Washington Administrative Code*, Olympia, Washington.

WAC 173-304-490. “Minimum Functional Standards for Solid Waste Handling; Ground Water Monitoring Requirements.” *Washington Administrative Code*, Olympia, Washington.

WAC 173-340. “Model Toxics Control Act–Cleanup.” *Washington Administrative Code*, Olympia, Washington.

WAC 246-290. “Group A Public Water Supplies.” *Washington Administrative Code*, Olympia, Washington.

WAC 246-290-310. “Maximum Contaminant Levels (MCLs) and Maximum Residual Disinfectant Levels (MRDLs).” *Washington Administrative Code*, Olympia, Washington.

Other References

ARH-CD-745. 1976. *Input and Decayed Values of Radioactive Liquid Wastes Discharged to the Ground in the 200 Areas Through 1975*. Prepared by JD Anderson (Atlantic Richfield Hanford Company) for the U.S. Department of Energy Research and Development Administration, Richland, Washington.

BHI-00012, Rev. 00. 1994. *300-FF-2 Operable Unit Technical Baseline Report*. DH Deford, RW Carpenter, and MW Einan, Bechtel Hanford, Inc., Richland, Washington.

BHI-00720, Rev. 6. 2002. *Performance Evaluation Report for Soil Vapor Extraction Operations at the Carbon Tetrachloride Site, February 1992 - September 2001/June 2002*. VJ Rohay, Bechtel Hanford, Inc., Richland, Washington.

BHI-00725. 1996. *100-N Pilot Project: Proposed Consolidated Groundwater Monitoring Program*. JV Borghese, MJ Hartman, SP Luttrell, CJ Perkins, JP Zoric, and SC Tindall, Bechtel Hanford, Inc., Richland, Washington.

BHI-00873. 1996. *Description of Work for Routine Groundwater Sampling at the Environmental Restoration Disposal Facility*. BH Ford, Bechtel Hanford, Inc., Richland, Washington.

BHI-01164. 1998. *300 Area Process Trenches Verification Package*. Bechtel Hanford, Inc., Richland, Washington.

BNWL-B-360. 1974. *Selected Water Table Contour Maps and Well Hydrographs for the Hanford Reservation, 1944-1973*. KL Kipp and RD Mudd, Pacific Northwest Laboratories, Richland, Washington.

BNWL-243. 1966. *Soil Survey Hanford Project in Benton County, Washington*. BF Hajek, Pacific Northwest Laboratory, Richland, Washington.

Christensen JN, PE Dresel, ME Conrad, K Maher, and DJ Depaolo. 2004. "Identifying the Sources of Subsurface Contamination at the Hanford Site in Washington using High-Precision Uranium Isotopic Measurements." *Environmental Science and Technology* 38(12):3330-3337.

City of Richland. 2006. *Horn Rapids Landfill Environmental Monitoring Report Calendar Year 2005*. Public Works Department, Richland, Washington.

CP-15329, Rev. 0. 2003. Data Quality Objective Summary Report for Establishing a RCRA/CERCLA/AEA Integrated 200 West and 200 East Area Groundwater Monitoring Network. Prepared by ME Byrnes (Fluor Hanford, Inc.) and BA Williams (Pacific Northwest National Laboratory) for the U.S. Department of Energy, Richland, Washington.

Davis JC. 2002. *Statistics and Data Analysis in Geology*, Third Edition. John Wiley & Sons, New York.

Devlin JF. 2003. "A Spreadsheet Method of Estimating Best-Fit Hydraulic Gradients Using Head Data from Multiple Wells." *Groundwater* 41(3):316-320.

DOE Order 5400.5. "Radiation Protection of the Public and the Environment."

DOE/ORP-2005-01. 2006. *Initial Single-Shell Tank System Performance Assessment for the Hanford Site*. U.S. Department of Energy, Office of River Protection, Richland, Washington.

DOE/ORP-2008-001. 2008. *RCRA Facility Investigation Report for Hanford Single-Shell Tank Farms*. U.S. Department of Energy, Office of River Protection, Richland, Washington.

DOE/RL-91-32, Draft B. 1991. *Expedited Response Action Proposal (EE/CA & EA) for 200 West Area Carbon Tetrachloride Plume, Appendix B*. VJ Rohay and VG Johnson for the U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-92-16. 1993. 200 West Groundwater Aggregate Area Management Study Report. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-92-19, Rev. 0. 1993. 200 East Groundwater Aggregate Area Management Study Report. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-92-23, Rev. 0. 1992. *Hanford Site Groundwater Background*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-92-32, Rev. 0. 1992. *Expedited Response Action Assessment for 316-5 Process Trenches*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-92-67, Draft B. 1992. *Final Remedial Investigation Study-Environmental Assessment Report for the 1100-EM-1 Operable Unit, Hanford*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-92-76, Rev. 1, Draft B. 2004. *Remedial Investigation/Feasibility Study Work Plan for the 200-UP-1 Groundwater Operable Unit*. Prepared by ME Byrnes (Fluor Hanford, Inc.) and MS Miller (Environmental Quality Management) for the U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-93-22. 1994. *Phase I and II Feasibility Study Report for the 300-FF-5 Operable Unit*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-93-73, Rev. 2. 1997. *300 Area Process Trenches Modified Closure/Postclosure Plan*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-93-88. 1994. *Annual Report for RCRA Groundwater Monitoring Projects at Hanford Site Facilities for 1993*. Prepared by Geosciences Group, Westinghouse Hanford Company, Environmental Division for U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-94-85, Rev. 0. 1995. *Remedial Investigation/Feasibility Study Report for the 300-FF-5 Operable Unit*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-95-73, Rev. 1. 1996. *Operation and Maintenance Plan for the 300-FF-5 Operable Unit*. Prepared by CH2M HILL Hanford, Inc. for the U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-95-74, Rev. 3. 1996. *TWRS System Requirements Review Action Plan*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-95-99, Rev. 0. 1996. *100-FR-3 Groundwater/Soil Gas Supplemental Limited Field Investigation Report*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-95-111. 1997. *Corrective Measures Study for the 100-NR-1 and 100-NR-2 Operable Units*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-96-39, Rev. 0. 1998. *100-NR-1 Treatment, Storage, and Disposal Units Corrective Measures Study/Closure Plan*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-96-61. 1997. *Hanford Site Background: Part 3, Groundwater Background*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-96-84, Rev. 0. 1996. *Remedial Design Report and Remedial Action Work Plan for the 100-HR-3 and 100-KR-4 Groundwater Operable Units' Interim Action*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-96-90, Rev. 0. 1997. *Interim Action Monitoring Plan for the 100-HR-3 and 100-KR-4 Operable Units*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-96-105, Rev. 1. 1997. *Richland Environmental Restoration Project Baseline, Multi-Year Work Plan*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-97-1047. 2002. *History of the Plutonium Production Facilities at the Hanford Site Historic District, 1943-1990*. Prepared by the Hanford Cultural and Historic Resources Program for the U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-99-51. 2000. *Remedial Design Report and Remedial Action Work Plan for the 100-HR-3 Groundwater Operable Unit In Situ Redox Manipulation*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-2000-59, Rev. 0. 2000. *Sampling and Analysis Plan for Aquifer Sampling Tubes*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

- DOE/RL-2000-72, Rev. 1. 2006. *Performance Assessment Monitoring Plan for the Hanford Site Low-Level Burial Grounds*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE/RL-2001-49, Rev. 1. 2003. *Groundwater Sampling and Analysis Plan for the 200-BP-5 Operable Unit*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE/RL-2002-10. 2002. *Sampling and Analysis Plan for the 200-UP-1 Groundwater Monitoring Well Network*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE/RL-2002-11, Rev. 1. 2006. *300-FF-5 Operable Unit Sampling and Analysis Plan*. Prepared by CH2M HILL Hanford, Inc. for the U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE/RL-2003-04, Rev. 0. 2003. *Sampling and Analysis Plan for the 200-PO-1 Groundwater Operable Unit*. MJ Hartman and JW Lindberg, Pacific Northwest National Laboratory, Richland, Washington.
- DOE/RL-2003-04, Rev. 1. 2005. *Sampling and Analysis Plan for the 200-PO-1 Groundwater Operable Unit*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE/RL-2003-38, Rev. 1. 2004. *100-BC-5 Operable Unit Sampling and Analysis Plan*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE/RL-2003-49, Rev. 0. 2003. *100-FR-3 Operable Unit Sampling and Analysis Plan*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE/RL-2003-49, Rev. 1. 2004. *100-FR-3 Operable Unit Sampling and Analysis Plan*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE/RL-2003-55, Rev. 0. 2004. *Remedial Investigation/Feasibility Study Work Plan for the 200-ZP-1 Groundwater Operable Unit*. ME Byrnes (Fluor Hanford, Inc.) for the U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE/RL-2004-74, Rev. 0. 2005. *300-FF-1 Operable Unit Remedial Action Report*. Prepared by Washington Closure Hanford for the U.S. Department of Energy, Richland, Washington.
- DOE/RL-2005-40, Draft B. 2005. *100-B/C Pilot Project Risk Assessment Report*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE/RL-2005-41, Rev. 0. 2005. *Work Plan for Phase III Feasibility Study 300-FF-5 Operable Unit*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE/RL-2005-47, Rev. 0. 2005. *300-FF-5 Operable Unit Limited Field Investigation Plan*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE/RL-2005-76. 2005. *Sampling and Analysis Plan for Calendar Year 2005 Well Drilling at the 200-BP-5 Operable Unit*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE/RL-2005-96, Rev. 0, Reissue. May 2006. *Strontium-90 Treatability Test Plan for 100-NR-2 Groundwater Operable Unit*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE/RL-2006-08. 2006. *Calendar Year 2005 Annual Summary Report for the 100-HR-3, 100-KR-4, and 100-NR-2 Operable Unit Pump-and-Treat Operations*. RS Edrington, GG Kelty, MG Piepho, and RF Raidl, U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-2006-17, Rev. 0. 2006. *Treatability Test Report for Calcium Polysulfide in the 100-K Area*. SW Peterson and KA Hedquist, U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-2006-19. 2006. *Sampling and Analysis Plan for Characterizing Groundwater in 200 West Area in vicinity of old Laundry Facility and T Plant*. ME Brynes, U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-2006-20, Rev. 0. 2006. *The Second CERCLA Five-Year Review Report for the Hanford Site*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-2006-24, Rev. 0. 2006. *Remedial Investigation Report for the 200-ZP-1 Groundwater Operable Unit*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-2006-46, Rev. 0. 2006. *Sampling and Analysis Plan for Deep Groundwater Wells 299-W11-48 (C5243) and 299-W10-32 (C5244) Near Waste Management Area T in the 200-ZP-1 Operable Unit, Fiscal Year 2006*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-2006-52, Rev. 1. 2006. *The KW Pump and Treat System Remedial Design and Remedial Action Work Plan, Supplement to the 100-KR-4 Groundwater Operable Unit Interim Action*. Prepared by RF Raidl, Fluor Hanford, Inc., for U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-2006-58, Rev. 0. 2006. *Carbon Tetrachloride Dense Non-Aqueous Phase Liquid (DNAPL) Source Term Interim Characterization Report*. WL Bratton, KR Moser, and JD Doughty, U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-2006-74. 2007. *Field Investigation Plan for the Source of the Southwestern Chromium Plume in the 100-D Area*. SW Petersen, Fluor Hanford, Inc., Richland, Washington.

DOE/RL-2006-75, Rev. A. 2007. *Supplement to the 100-HR-3 and 100-KR-4 Remedial Design Report and Remedial Action Workplan for the Expansion of the 100-KR-4 Pump-and-Treat System*. U.S. Department of Energy, Richland, Washington.

DOE/RL-2006-76. 2007. *Calendar Year 2006 Annual Summary Report for the 100-HR-3, 100-KR-4, and 100-NR-2 Operable Unit Pump-and-Treat Operations*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-2007-18. 2007. *Investigation/Feasibility Study Work Plan for the 200-BP-5 Groundwater Operable Unit and the appended Sampling and Analysis Plan*. U.S. Department of Energy, Richland, Washington.

DOE/RL-2007-20. 2007. *The Hanford Integrated Groundwater and Vadose Zone Management Plan*. U.S. Department of Energy, Richland, Washington.

DOE/RL-2007-21, Draft A. 2007. *Risk Assessment for the 100 Area and 300 Area Component of the River Corridor Baseline Risk Assessment*. U.S. Department of Energy, Richland, Washington.

DOE/RL-2007-22, Rev. 0. 2007. *Carbon Tetrachloride Dense Non-Aqueous Phase Liquid (DNAPL) Source Term Characterization Report Addendum*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-2007-28, Draft A. 2007. *Feasibility Study Report for the 200-ZP-1 Groundwater Operable Unit*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

DOE/RL-2007-33, Draft A. 2007. *Proposed Plan for Remediation of the 200-ZP-1 Groundwater Operable Unit*. U.S. Department of Energy, Richland Operations Office, Richland, Washington.

E06-01-20064Q. 2007. *2006 4Q Groundwater Report*. EHS&L Document, AREVA, Richland, Washington.

E06-01-20071Q. 2007. *1Q Groundwater Report*. AREVA, Richland, Washington.

E06-01-20072Q. 2007. *2Q Groundwater Report*. AREVA, Richland, Washington.

E06-02-2006. 2007. *2006 Annual RCRA Report, Groundwater Quality Assessment Program*. AREVA, Richland, Washington.

Ecology - Washington State Department of Ecology, U.S. Environmental Protection Agency, and U.S. Department of Energy. 1989. *Hanford Federal Facility Agreement and Consent Order*. Document No. 89-10, as amended (The Tri-Party Agreement), Olympia, Washington.

Ecology. 1994a. *Dangerous Waste Portion of the Resource Conservation and Recovery Act Permit for the Treatment, Storage, and Disposal of Dangerous Waste*. Permit Number WA 7890008967, as revised. Washington State Department of Ecology, Olympia, Washington.

Ecology. 1994b. *Natural Background Soil Metals Concentrations in Washington State*. Publication No. 94-115, Washington State Department of Ecology Toxics Cleanup Program, Olympia, Washington.

Ecology. 2000. *State Waste Discharge Permit ST 4500*. Washington State Department of Ecology, Kennewick, Washington.

Ecology. 2001. *Cleanup Levels and Risk Calculations under the Model Toxics Control Act Cleanup Regulation (CLARC)*. Publication No. 94-145, Version 3.1, Washington State Department of Ecology, Olympia, Washington.

EPA. 2000. "Explanation of Significant Difference for the 300-FF-5 Record of Decision" (see ROD 1996a). Issued by U.S. Environmental Protection Agency, Region 10, and U.S. Department of Energy, Richland, Washington.

EPA. 2001. *USDOE Hanford Site First Five Year Review Report*. U.S. Environmental Protection Agency, Region 10, Hanford Project Office, Seattle, Washington.

EPA 402-R-99-001. 1999. *Cancer Risk Coefficients for Environmental Exposure to Radionuclides (FGR-13)*. KF Eckerman, RW Leggett, CB Nelson, JS Ppuzkin, and ACB Richardson, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

EPA 822-R-96-001. 1996. *Drinking Water Regulations and Health Advisories*. U.S. Environmental Protection Agency, Office of Water, Washington, D.C.

Fritz, BG and EV Arntzen. 2007. "Effect of Rapidly Changing River Stage on Uranium Flux Through The Hyporheic Zone." *Ground Water*, 45:6, pp. 753-760.

HEIS. 1994. *Hanford Environmental Information System*. Environmental Information Systems Department, Fluor Hanford, Inc., Richland, Washington.

Hem, JD. 1959. *Study and Interpretation of Chemical Characteristics of Natural Water*. Water Supply Paper 1473, U.S. Geological Survey, Washington, DC.

HGP-LDR-028. 2006. *Detection and Quantification of Natural and Anthropogenic Uranium by High-Resolution Spectral Gamma Logging*. RG McCain, PD Henwood, and CJ Koizumi, SM Stoller Corporation, Richland, Washington.

HNF-SD-WM-TI-740, Rev. 0. 1990. *Standard Inventories of Chemicals and Radionuclides in Hanford Site Tank Wastes*. Prepared by MJ Kupfer, AL Boldt, BA Higley, KM Hodgson, LW Shelton, BC Simpson, RA Watrous, MD LeClair, GL Borsheim, RT Winward, RM Orme, NG Colton, SL Lambert, DE Place, and WW Schulz for Lockheed Martin Hanford Corporation, Richland, Washington.

HW-49728. 1957. *The Effect of Ground-Water Mounds on the PUREX Operations*. WE Bierschenk, Hanford Atomic Products Operation, General Electric Company, Richland, Washington.

HW-77170. 1963. *Status of the Groundwater Beneath Hanford Reactor Areas: January 1962 and January 1963*. Hanford Atomic Products Operation, General Electric Company, Richland, Washington.

Kebow, AE. 2001. *Applied Chemical Hydrogeology*. Prentice-Hall, Inc., Upper Saddle River, New Jersey.

Narbutovskih, SM, JP McDConald, R Schalla, and MD Sweeney. 2002. "Application of the Colloidal Borescope to Determine A Complex Groundwater Flow Patter." *Evaluation and Remediation of Low Permeability and Dual Porosity Environments*. ASTM STP 1415, MN Sara and LG Everett (eds.), ASTM International, West Conshohocken, Pennsylvania.

National Bureau of Standards. 1963. *National Bureau of Standards Handbook 69: National Committee on Radiation Protection*. U.S. Department of Commerce, Washington, D.C.

NAVD88. 1988. North American Vertical Datum of 1988.

Peterson JM, MM MacDonell, LA Haroun, FA Monette, and RD Hildebrand. 2002. *Summary Fact Sheets for Selected Environmental Contaminants to Support Health Risk Analysis*. Environmental Assessment Division, Argonne National Laboratory, Chicago, Illinois. Available at: <http://www.ead.anl.gov>

PNL-5408. 1985. *Ground-Water Monitoring at the Hanford Site, January-December 1984*. CS Cline, JT Rieger, JR Raymond, and PA Eddy, Pacific Northwest Laboratory, Richland, Washington.

PNL-7147. 1989. *Final Report: Soil Gas Survey at the Solid Waste Landfill*. JC Evans, RM Freeland, DW Glover, and C Veverka, Pacific Northwest Laboratory, Richland, Washington.

PNL-8122. 1992. *Water-Table Elevations on the Hanford Site and Outlying Areas, 1991*. DR Newcomer, KD Pohlod, and JP McDonald, Pacific Northwest Laboratory, Richland, Washington.

PNL-8580. 1993. *Water Level Measurements for Modeling Hydraulic Properties in the 300-FF-5 and 100 Aggregate Area Operable Units*. MD Campbell, WJ McMahon, and KR Simpson, Pacific Northwest Laboratory, Richland, Washington.

PNL-8869. 1993. *Preliminary Potentiometric Map and Flow Dynamic Characteristics for the Upper-Basalt Confined Aquifer System*. FA Spane, Jr. and RG Raymond, Pacific Northwest Laboratory, Richland, Washington.

- PNL-9437. 1994. *Monitoring Groundwater and River Interaction Along the Hanford Reach of the Columbia River*. MD Campbell, Pacific Northwest Laboratory, Richland, Washington.
- PNL-10817. 1995. *Hydrochemistry and Hydrogeologic Conditions Within the Hanford Upper Basalt Confined Aquifer System*. FA Spane, Jr. and WD Webber, Pacific Northwest Laboratory, Richland, Washington.
- PNNL-11141. 1996. *Hanford Site Ground-Water Monitoring for 1995*. PE Dresel, JT Rieger, WD Webber, PD Thorne, BM Gillespie, SP Luttrell, SK Wurstner, and TL Liikala, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-11523. 1997. *Combination RCRA Groundwater Monitoring Plan for the 216-A-10, 216-A-36B, and 216-A-37-1 PUREX Cribs*. JW Lindberg, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-11573. 1997. *Groundwater Monitoring Plan for the 183-H Solar Evaporation Basins*. MJ Hartman, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-11801. 1997. *Three-Dimensional Analysis of Future Groundwater Flow Conditions and Contaminant Plume Transport in the Hanford Site Unconfined Aquifer System: FY 1996 and 1997 Status Report*. CR Cole, SK Wurstner, MP Bergeron, MD Williams, and PD Thorne, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-11809. 1998. *Results of Phase I Groundwater Quality Assessment for Single-Shell Tank Waste Management Areas T and TX-TY at the Hanford Site*. FN Hodges, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-11810. 1998. *Results of Phase I Groundwater Quality Assessment for Single-Shell Tank Waste Management Area S-SX at the Hanford Site*. VG Johnson and CJ Chou, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-11826. 1998. *Results of Phase I Groundwater Quality Assessment for Single-Shell Tank Waste Management Areas B-BX-BY at the Hanford Site*. SM Narbutovskih, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-12057-ICN-1. 2002. *RCRA Assessment Plan for Single-Shell Tank Waste Management Area T at the Hanford Site, Interim Change Notice 1*. DG Horton, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-12072-ICN-1. 2002. *RCRA Assessment Plan for Single-Shell Tank Waste Management Area TX-TY at the Hanford Site, Interim Change Notice 1*. DG Horton, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-12114. 1999. *RCRA Assessment Plan for Single-Shell Tank Waste Management Area S-SX at the Hanford Site*. VG Johnson and CJ Chou, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-12220. 1999. *Sampling and Analysis Plan Update for Groundwater Monitoring - 1100-EM-1 Operable Unit*. DR Newcomer, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-12227. 1999. *Groundwater Monitoring Plan for the Nonradioactive Dangerous Waste Landfill*. JW Lindberg and MJ Hartman, Pacific Northwest National Laboratory, Richland, Washington.

- PNNL-12261. 2000. *Revised Hydrogeology for the Suprabasalt Upper Aquifer System, 200 East Area and Vicinity, Hanford Site Washington*. BA Williams, BN Bjornstad, R Schalla, and WD Webber, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13014. 2000. *Groundwater Monitoring Plan for the Solid Waste Landfill*. JW Lindberg and CJ Chou, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13023. 2001. *RCRA Groundwater Monitoring Plan for Single-Shell Tank Waste Management Area A-AX at the Hanford Site*. SM Narbutovskih, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13032. 2000. *Groundwater Monitoring Plan for the Hanford Site 200 Area Treated Effluent Disposal Facility*. DB Barnett, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13047. 1999. *Groundwater Monitoring Plan for the 216-A-29 Ditch*. MD Sweeney, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13080. 2000. *Hanford Site Groundwater: Settings, Sources, and Methods*. MJ Hartman (ed.), Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13116. 2000. *Hanford Site Groundwater Monitoring for Fiscal Year 1999*. MJ Hartman, LF Morasch, and WD Webber (eds.), Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13121. 2000. *Groundwater Monitoring and Tritium-Tracking Plan for the 200 Area State-Approved Land Disposal Site*. DB Barnett, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13185. 2000. *Groundwater Quality Assessment Plan for Single-Shell Tank Waste Management Area U at the Hanford Site*. FN Hodges and CJ Chou, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13282. 2000. *Groundwater Quality Assessment for Waste Management Area U; First Determination*. FN Hodges and CJ Chou, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13228. 2000. *Evaluation of Elevated Tritium Levels in Groundwater Downgradient from the 618-11 Burial Ground Phase I Investigation*. PE Dresel, BA Williams, JC Evans, JR, RM Smith, CJ Thompson, and LC Hulstrom, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13378. 2001. *Results of Detailed Hydrologic Characterization Tests - Fiscal Year 1999*. FA Spane, Jr., PD Thorne, and DR Newcomer, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13441. 2000. *RCRA Groundwater Quality Assessment Report for Waste Management Area S-SX (November 1997 through April 2000)*. VG Johnson and CJ Chou, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13447. 2001. *Transient Inverse Calibration of Hanford Site-Wide Groundwater Model to Hanford Operational Impacts - 1943 to 1996*. CR Cole, MP Bergeron, SK Wurstner, PD Thorne, S Orr, and MI McKinley, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13612. 2001. *Groundwater Quality Assessment Plan for Single-Shell Tank Waste Management Area U*. RM Smith, FN Hodges, and BA Williams, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13645. 2001. *300 Area Process Trenches Groundwater Monitoring Plan*. JW Lindberg, and CJ Chou, Pacific Northwest National Laboratory, Richland, Washington.

- PNNL-13675. 2001. *Measurement of Helium-3/Helium-4 Ratios in Soil Gas at the 618-11 Burial Ground*. KB Olsen, PE Dresel, and JC Evans, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13788. 2002. *Hanford Site Groundwater Monitoring for Fiscal Year 2001*. MJ Hartman, LF Morasch, and WD Webber (eds.), Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13914. 2002. *Groundwater Monitoring Plan for the 1301-N, 1324-N/NA, and 1325-N RCRA Facilities*. MJ Hartman, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-13929. 2002. *RCRA Groundwater Quality Assessment Report for Single-Shell Tank Waste Management Area T (January 1998 through December 2001)*. DG Horton, VG Johnson, FN Hodges, and CJ Chou, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-14022. 2002. *300 Area Uranium Leach and Adsorption Project*. RJ Serne, CF Brown, HT Schaefer, EM Price, MJ Lindberg, Z Wang, PL Gassman, and JG Catalano, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-14031. 2002. *Evaluation of Potential Sources for Tritium Detected in Groundwater at Well 199-K-111A, 100-K Area*. RE Peterson, FA Spame, KB Olsen, and MD Williams, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-14031-Rev2-ICN-1. 2006. *Monitoring Plan for RCRA Groundwater Assessment at the 216-U-12 Crib, Interim Change Notice 1*. BA Williams, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-14033. 2002. *Groundwater Monitoring and Assessment Plan for the 100-K Area Fuel Storage Basins*. RE Peterson, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-14070. 2002. *Groundwater Monitoring Plan for the 216-S-10 Pond and Ditch*. BA Williams and CJ Chou, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-14098. 2002. *Results of Groundwater Monitoring at the Hanford Site 200 Area Treated Effluent Disposal Site—1999 through FY 2002*. JT Rieger, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-14107. 2002. *Groundwater Chemistry and Hydrogeology of the Upper Saddle Mountains Basalt-Confined Aquifer South and Southeast of the Hanford Site*. DR Newcomer, EC Thornton, and TL Liikala, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-14113. 2002. *Results of Detailed Hydrologic Characterization Tests – Fiscal Year 2001*. FA Spame, Jr., PD Thorne, and DR Newcomer, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-14187. 2003. *Hanford Site Groundwater Monitoring for Fiscal Year 2002*. MJ Hartman, LF Morasch, and WD Webber (eds.), Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-14287. 2003. *Data Quality Objectives Summary Report - Designing a Groundwater Monitoring and Assessment Network for the 100-BC-5 and 100-FR-3 Operable Units*. MD Sweeney and CJ Chou, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-14301-Rev2-ICN-1. 2006. *Monitoring Plan for RCRA Groundwater Assessment at the 216-U-12 Crib, Interim Change Notice 1*. BA Williams, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-14548. 2004. *Hanford Site Groundwater Monitoring for Fiscal Year 2003*. MJ Hartman, LF Morasch, and WD Webber (eds.), Pacific Northwest National Laboratory, Richland, Washington.

PNNL-14753, Rev. 1. 2006. *Groundwater Data Package for Hanford Assessments*. PD Thorne, MP Bergeron, MD Williams, and VL Freedman, Pacific Northwest National Laboratory, Richland, Washington.

PNNL-14804. 2004. *Results of Detailed Hydrologic Characterization Tests - Fiscal Year 2003*. FA Spane and DR Newcomer, Pacific Northwest National Laboratory, Richland, Washington.

PNNL-14859. 2005. *Interim Status Groundwater Monitoring Plan for Low-Level Waste Management Areas 1 to 4, RCRA Facilities, Hanford, Washington*. P Dresel, Pacific Northwest National Laboratory, Richland, Washington.

PNNL-14898. 2004. *Results of Groundwater Modeling for Tritium Tracking at the Hanford Site 200 Area State-Approved Land Disposal Site – 2004*. DB Barnett, MP Bergeron, and EJ Freeman, Pacific Northwest National Laboratory, Richland, Washington.

PNNL-15070. 2005. *Hanford Site Groundwater Monitoring for Fiscal Year 2004*. MJ Hartman, LF Morasch, and WD Webber (eds.), Pacific Northwest National Laboratory, Richland, Washington.

PNNL-15121. 2005. *Uranium Geochemistry in Vadose Zone and Aquifer Sediments from the 300 Area Uranium Plume*. JM Zachara (ed.), Pacific Northwest National Laboratory, Richland, Washington.

PNNL-15125. 2005. *Flow and Transport in the Hanford 300 Area Vadose Zone-Aquifer-River System*. SR Waichler and SB Yabusaki, Pacific Northwest National Laboratory, Richland, Washington.

PNNL-15127. 2005. *Contaminants of Potential Concern in the 300-FF-5 Operable Unit: Expanded Annual Groundwater Report for Fiscal Year 2004*. RE Peterson, EJ Freeman, PD Thorne, MD Williams, JW Lindberg, CJ Murray, MJ Truex, SB Yabusaki, JP McDonald, VR Vermeul, and JM Zachara, Pacific Northwest National Laboratory, Richland, Washington.

PNNL-15301. 2006. *RCRA Assessment Plan for Single-Shell Tank Waste Management Area T*. DG Horton, Pacific Northwest National Laboratory, Richland, Washington.

PNNL-15315. 2006. *RCRA Assessment Plan for Single-Shell Tank Waste Management Area A-AX at the Hanford Site*. SM Narbutovskih and CJ Chou, Pacific Northwest National Laboratory, Richland, Washington.

PNNL-15479. 2005. *Groundwater Monitoring Plan for the Hanford Site 216-B-3 Pond RCRA Facility*. DB Barnett, RM Smith, CJ Chou, and JP McDonald, Pacific Northwest National Laboratory, Richland, Washington.

PNNL-15670. 2006. *Hanford Site Groundwater Monitoring for Fiscal Year 2005*. MJ Hartman, LF Morasch, and WD Webber (eds.), Pacific Northwest National Laboratory, Richland, Washington.

PNNL-15782. 2006. *STOMP Subsurface Transport Over Multiple Phases, Version 4.0, User's Guide*. MD White and M Oostrom, Pacific Northwest National Laboratory, Richland, Washington.

PNNL-15798. 2006. *100-N Shoreline Groundwater Monitoring Plan*. MJ Hartman, Pacific Northwest National Laboratory, Richland, Washington.

PNNL-15837. 2007. *Data Package for Past and Current Groundwater Flow and Contamination Beneath Single-Shell Tank Waste Management Areas*. DG Horton, Pacific Northwest National Laboratory, Richland, Washington.

- PNNL-15954. 2006. *Screening of Potential Remediation Methods for the 200-ZP-1 Operable Unit at the Hanford Site*. MJ Truex, MJ Nimmons, CD Johnson, PE Dresel, and CJ Murray, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-16005. 2007. *RCRA Assessment Plan for Single-Shell Tank Waste Management Area TX-TY*. DG Horton, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-16008. 2006. *Site Characterization Plan: Uranium Stabilization through Polyphosphate Injection*. VR Vermeul, JS Fruchter, DM Wellman, BA Williams, and MD Williams, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-16069. 2006. *Development of Historical Water Table Maps of the 200 West Area of the Hanford Site (1950-1970)*. TM Kinney and JP McDonald, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-16435. 2007. *Limited Field Investigation Report for Uranium Contamination in the 300 Area, 300-FF-5 Operable Unit, Hanford Site, Washington*. BA Williams, CF Brown, W Um, MJ Nimmons, RE Peterson, BN Bjornstad, DC Lanigan, RJ Serne, FA Spame, and ML Rockhold, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-16439. 2007. *Quarterly RCRA Groundwater Monitoring Data for the Period July through September 2006*. MJ Hartman, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-16346. 2007. *Hanford Site Groundwater Monitoring for Fiscal Year 2006*. MJ Hartman, LF Morasch, and WD Webber (eds.), Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-16492. 2007. *Results of Groundwater Monitoring for the 300 Area Process Trenches, Reporting Period: July-December 2006*. JW Lindberg, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-16509. 2007. *Geostatistical Analyses of the Persistence and Inventory of Carbon Tetrachloride in the 200 West Area of the Hanford Site*. CJ Murray Y-J Bott, MJ Truex, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-16571. 2007. *Treatability Test Plan for 300 Area Uranium Stabilization Through Polyphosphate Injection*. VR Vermeul, MD Williams, BG Fritz, R Mackley, DP Mendoza, DR Newcomer, ML Rockhold, BA Williams, and DM Wellman, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-16623. 2007. *Hanford Site Environmental Report for Calendar Year 2006*. Poston TM, RW Hanf, Jr, JP Duncan, and RL Dirkes, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-16805. 2007. *Investigation of the Hyporheic Zone at the 300 Area, Hanford Site*. BG Fritz, NP Kohn, TJ Gilmore, D McFarland, EV Arntzen, RD Mackley, GW Patton, DP Mendoza, and AL Bunn, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-16894. 2007. *Assessment of the Strontium-90 Contaminant Plume Along the Shoreline of the Columbia River at the 100-N Area of the Hanford Site*. DP Mendoza, BG Fritz, GW Patton, T J Gilmore, MJ Hartman, R Mackley, FA Spame, BN Bjornstad, MD Sweeney, RE Clayton, Pacific Northwest National Laboratory, Richland, Washington.
- PNNL-17031. 2007. *A Site Wide Perspective on Uranium Geochemistry at the Hanford Site*. JM Zachara, CF Brown, JN Christensen, JA Davis, PE Dresel, C Liu, SD Kelly, JP McKinley, RJ Serne, and W Um, Pacific Northwest National Laboratory, Richland, Washington.

PNNL-17034. 2007. *Uranium Contamination in the Subsurface Beneath the 300 Area, Hanford Site, Washington*. RE Peterson, RJ Serne, PD Thorne, MD Williams, and ML Rockhold, Pacific Northwest National Laboratory, Richland, Washington.

PNNL-17067, Rev. 0. 2007. *300 Area Integrated Field-Scale Subsurface Research Challenge (IFC) Field Site Management Plan*. Pacific Northwest National Laboratory, Richland, Washington.

PNNL-SA-49780. 2006. *The 2002-2003 Fluctuation of the Water-Table Elevation in the 200 East Area and Vicinity: Evaluation of Potential Causes*. JP McDonald, Pacific Northwest National Laboratory, Richland, Washington.

PNNL-SA-56035. 007. *Characterizing the Hydrogeology of the Hyporheic Zone Along the 300 Area of the Hanford Site, Washington*. RD Mackley and BG Fritz, oral presentation at the 6th Washington Hydrogeology Symposium, May 1-3, 2007, Tacoma, Washington.

RHO-BWI-LD-5. 1978. *Geology of Gable Mountain - Gable Butte Area*. KR Fecht, Rockwell Hanford Operations, Richland, Washington.

RHO-BWI-ST-5. 1979. "Pasco Basin Hydrology." In *Hydrologic Studies Within the Columbia Plateau, Washington: An Integration of Current Knowledge*. RE Gephart, FA Spane, Jr., LS Leonhart, DA Palombo, and SR Strait, Rockwell Hanford Operations, Richland, Washington.

RHO-CD-673. 1979. *Handbook 200 Areas Waste Sites. Vols. 1 and 3*. HL Maxfield, Rockwell Hanford Operations, Richland, Washington.

RHO-RE-ST-12 P. 1984. *An Assessment of Aquifer Intercommunication in the B Pond-Gable Mountain Pond Area of the Hanford Site*. MJ Graham, GV Last, and KR Fecht, Rockwell Hanford Operations, Richland, Washington.

RHO-ST-38. 1982. *Geohydrology of the Rattlesnake Ridge Interbed in the Gable Mountain Pond Area*. SR Strait and BA Moore, Rockwell Hanford Operations, Richland, Washington.

RHO-ST-42. 1981. *Hydrology of the Separations Area*. MJ Graham, MD Hall, SR Strait, and WR Brown. Rockwell Hanford Operations, Richland, Washington.

ROD. 1993. *Record of Decision, USDOE Hanford 1100 Area, Hanford Site, Richland, Washington (1100-EM-1, 1100-EM-2, 1100-EM-3, and 1100-IU-1 Operable Units)*. Washington State Department of Ecology, U.S. Environmental Protection Agency, and U.S. Department of Energy, Richland Operations Office, Richland, Washington.

ROD. 1995a. *Declaration of the Record of Decision for the 200-ZP-1 Operable Unit*. Washington State Department of Ecology, U.S. Environmental Protection Agency, and U.S. Department of Energy, Richland Operations Office, Richland, Washington.

ROD. 1995b. *Declaration of the Record of Decision for the USDOE Hanford Environmental Restoration Disposal Facility*. Washington State Department of Ecology, U.S. Environmental Protection Agency, and U.S. Department of Energy, Richland Operations Office, Richland, Washington.

ROD. 1996a. *Declaration of the Record of Decision for the 100-HR-3 and 100-KR-4 Operable Units*. Washington State Department of Ecology, U.S. Environmental Protection Agency, and U.S. Department of Energy, Richland Operations Office, Richland, Washington.

ROD. 1996b. *Record of Decision for the 300-FF-1 and 300-FF-5 Operable Units*. Washington State Department of Ecology, U.S. Environmental Protection Agency, and U.S. Department of Energy, Richland Operations Office, Richland, Washington.

ROD. 1997. *Declaration of the Record of Decision for the 200-UP-1 Operable Unit*. Washington State Department of Ecology, U.S. Environmental Protection Agency, and U.S. Department of Energy, Richland Operations Office, Richland, Washington.

ROD. 1999a. *Amended Record of Decision, Decision Summary and Responsiveness Summary for the 100-HR-3 Operable Unit*. U.S. Environmental Protection Agency, Region 10, Seattle, Washington.

ROD. 1999b. *Interim Remedial Action Record of Decision for the 100-NR-1 and -NR-2 Operable Units of the Hanford 100-N Area*. Washington State Department of Ecology, Olympia, Washington.

RPP-10757. 2002. *Technetium-99 in Groundwater at Hanford Well 299-W23-19: Options Analysis and Recommended Action Report*. SE Parnell and WJ McMahon, CH2M HILL Hanford, Inc., for CH2M HILL Hanford Group, Inc., Richland, Washington.

RPP-15808. 2003. *Subsurface Conditions Description Report for the U Waste Management Area*. MI Wood and TE Jones, CH2M HILL Hanford Group, Inc., Richland, Washington.

RPP-21895, Rev. 2. 2005. *241-C-103 and 241-C-109 Tanks Waste Retrieval Work Plan*. CH2M HILL Hanford Group, Inc., Richland, Washington.

RPP-23405. 2005. *Tank Farm Vadose Zone Contamination Volume Estimates*. Prepared by JG Field and TE Jones, CH2M HILL Hanford Group, Inc. Richland, Washington.

RPP-23740. 2006. *Geology, Hydrogeology, Geochemistry, and Mineralogy Data Package for the Single-Shell Tank Waste Management Areas at the Hanford Site*. S4 Reidel, DG Horton, YJ Chien, DB Barnett, KM Singleton, CH2MHill Hanford Group, Inc., Richland, Washington.

RPP-23748, Rev. 0. 2006. *Geology, Hydrogeology, Geochemistry, and Mineralogy Data Package for the Single-Shell Tank Waste Management Areas at the Hanford Site*. CH2M HILL Hanford Group, Inc., Richland, Washington.

RPP-26744, Rev. 0. 2005. *Hanford Soil Inventory Model, Rev. 1*. Prepared by RA Corbin, BC Simpson, MJ Anderson (Nuvotec), WF Danielson III (Advanced Imaging Technologies), JG Field, TE Jones (CH2M HILL Hanford Group, Inc.), and CT Kincaid (Pacific Northwest National Laboratory) for the U.S. Department of Energy, Richland, Washington.

RPP-PLAN-26534, Rev. C. 2005. *Integrated Disposal Facility Operational Monitoring Plan to Meet DOE Order 435.1*. Prepared by DR Lucas (DRL Technology Services), SP Reidel (Pacific Northwest National Laboratory), and RM Mitchell, (Duratek Federal Services) for the U.S. Department of Energy, Richland, Washington.

RPP-RPT-28955, Rev. 0. 2006. *Surface Geophysical Exploration of T Tank Farm at the Hanford Site*. D Rucker, M Levitt, C Henderson, and K Williams, CH2M HILL Hanford Group, Inc., Richland, Washington.

RPP-RPT-30976. 2006. *Surface Geophysical Exploration of S Tank Farm at the Hanford Site*. D Rucker, M Levitt, C Henderson, and K Williams, CH2M HILL Hanford Group, Inc., Richland, Washington.

RPP-RPT-31557. 2006. *Surface Geophysical Exploration of U Tank Farm at the Hanford Site*. D Rucker, M Levitt, C Henderson, and K Williams, CH2M HILL Hanford Group, Inc., Richland, Washington.

RPP-RPT-31558. 2007. *Surface Geophysical Exploration of the C Tank Farm at the Hanford Site*. M Levitt, D Rucker, C Henderson and K Williams, CH2M HILL Hanford Group, Inc., Richland, Washington.

RPP-RPT-34690. 2007. *Surface Geophysical Exploration of the B, BX, BY Tank Farms at the Hanford Site*. D Rucker, M Levitt, C Henderson, J Greenwood, M Bergeron, B Cubbage, M McNeill, G O'Brien, S Gehring, and R McGill, CH2M HILL Hanford Group, Inc., Richland, Washington.

SGW-33224, Rev. 0. 2007. *Sampling and Analysis Instructions for Investigating Chromium Groundwater Contamination in the 600 Area Between 100-D and 100-H*. SH Hall, Fluor Hanford, Inc., Richland, Washington.

SGW-33492. 2007. *Quarterly RCRA Groundwater Monitoring Data For Period October Through December 2006*. Fluor Hanford, Inc., Richland, Washington.

SWG-33746, Rev. 0. 2007. *Performance Evaluation Report for Soil Vapor Extraction Operations at the 200-PW-1 Carbon Tetrachloride Site, Fiscal Year 2006*. VJ Rohay, Fluor Hanford, Inc. Richland, Washington.

SGW-34011, Rev. 0. 2007. *Data Quality Objectives Summary Report Supporting the 200-PO-1 Groundwater Operable Unit*. GD Cummins, Fluor Hanofrd, Inc., Richland, Washington.

SGW-34328, Rev 0. 2007. *200-UP-1 and 200-ZP-1 Pump and Treat Semi Annual Technical Memorandum, Fiscal Year 2007*. DB Erb, Fluor Hanford Company, Richland, Washington.

SGW-34359. 2007. *Quarterly RCRA Groundwater Monitoring Data For Period January Through March 2007*. Fluor Hanford, Inc., Richland, Washington.

SGW-35028, Rev. 0. 2007. *Aquifer Sampling Tube Results for Fiscal Year 2007*. MJ Hartman and RO Mahood, Fluor Hanford, Inc., Richland, Washington.

SGW-35164. 2007. *Results of Groundwater Monitoring for the 300 Area Process Trenches, Reporting Period: January-June 2007*. JW Lindberg, Fluor Hanford, Inc., Richland, Washington.

SGW-35502. 2007. *Quarterly RCRA Groundwater Monitoring Data For Period April Through June 2006*. Fluor Hanford, Inc., Richland, Washington.

Sheppard SC, MI Sheppard, MO Gallerand, and B Sanipelli. 2005. "Derivation of Ecotoxicity Thresholds for Uranium." *Journal of Environmental Radioactivity* 79:55-83.

Sobczyk SM. 2004. *Interpreted Extent of Subsurface Contamination Resulting from the 241-BX-102 Tank Leak 200 East Area, Hanford Site, Washington*. Prepared for Confederated Tribes of the Umatilla Indian Reservation Department of Science and Engineering, Mission, Oregon.

Sobczyk SM, PD Henwood, RG McCain, and JM Silko. 2003. "Vadose Zone Characterization of the B-BX-BY Waste Management Area and Surrounding Disposal Facilities, Hanford Site, Washington." *Proc 2003 NGWA Pacific Northwest Focus Conference*, Anchorage, Alaska, June 2003.

TPA-CN-182. 2007. TPA Change Notice for Modifying *100-BC-5 Operable Unit Sampling and Analysis Plan*, DOE/RL-2003-38, Rev. 2. Signed by Environmental Protection Agency and U.S. Department of Energy, Richland, Operations Office, Richland, Washington.

U.S. Department of Commerce. 1959, as amended 1963. "Maximum Permissible Body Burdens and Maximum Permissible Concentrations of Radionuclides in Air and in Water for Occupational Exposure." In *National*

Bureau of Standards Handbook 69, National Bureau of Standards, Washington, D.C. (This document is available from the Hilton M. Briggs Library, South Dakota State University, Brookings, South Dakota.)

WCH-71. 2007. *Integrated Strategy for Achieving Final Cleanup Decision in the River Corridor*. LC Hulstrom and JA Lerch, Washington Closure Hanford, Richland, Washington.

WHC-189, Rev. 0. 2007. *Groundwater and Leachate Monitoring and Sampling at ERDF, CY 2006*. RL Weiss, Washington Closure Hanford, Richland, Washington.

WCH-00225. 2007. *Sampling and Analysis Instruction for Evaluation of Residual Hexavalent Chromium Contamination in the Subsurface Soil at 100-B-27*. WS Thompson, Washington Closure Hanford, Richland, Washington.

WHC-EP-0587. 1992. *Groundwater Impact Assessment Report for the 400 Area Ponds*. DK Tyler, Westinghouse Hanford Company, Richland, Washington.

WHC-EP-0595. 1993. *Westinghouse Hanford Company Operational Groundwater Status Report 1990-1992*. VG Johnson, Westinghouse Hanford Company, Richland, Washington.

WHC-SA-1674-VA. 1992. *Characterization of a Chromium Plume in Groundwater Along the Columbia River Shoreline, Hanford Site, Washington*. RE Peterson and MP Connelly, Westinghouse Hanford Company, Richland, Washington. (Presented at 1992 Fall Meeting, American Geophysical Union, San Francisco, December 7-11, 1992.)

WHC-SD-EN-AP-132, Rev. 0. 1993. *Interim-Status Groundwater Quality Assessment Plan for the Single-Shell Tank Waste Management Areas T and TX-TY*. JA Caggiano and CJ Chou, Westinghouse Hanford Company, Richland, Washington.

WHC-SD-EN-AP-185. 1995. *Groundwater Monitoring Plan for the 300 Area Process Trenches*. JW Lindberg, CJ Chou, and VG Johnson, Westinghouse Hanford Company, Richland, Washington.

WHC-SD-EN-EV-003, Rev. 1. 1992. *Results of Groundwater Quality Assessment Monitoring at the 1301-N and 1324-N/NA Facilities*. MJ Hartman, Westinghouse Hanford Company, Richland, Washington.

WHC-SD-EN-TI-023. 1992. *Hydrologic Information Summary for the Northern Hanford Site*. MJ Hartman and RE Peterson, Westinghouse Hanford Company, Richland, Washington.

WHC-SD-EN-TI-101. 1993. *Carbon Tetrachloride Evaporative Losses and Residual Inventory Beneath 200 West Area at the Hanford Site*. Prepared by Ebasco Services for Westinghouse Hanford Company, Richland, Washington.

WHC-SD-EN-TI-199. 1993. *Nonradioactive Dangerous Waste Landfill Soil-Gas Survey: Final Data Report*. ID Jacques, Westinghouse Hanford Company, Richland, Washington.

WHC-SD-EN-TI-239, Rev. 0. 1994. *100-K Area Technical Baseline Report*. RW Carpenter and SL Coté, Westinghouse Hanford Company, Richland, Washington.

WHC-SD-EN-TI-302. 1995. *Speciation and Transport Characteristics of Chromium in the 100D/H Areas of the Hanford Site*. EC Thornton, JE Amonette, JA Olivier, and DL Huang, Westinghouse Hanford Company, Richland, Washington.

WMP-17869, Rev. 0. 2003. *Performance Evaluation Report for Soil Vapor Extraction Operations at the 200-PW-1 Carbon Tetrachloride Site, Fiscal Year 2002*. VJ Rohay, Fluor Hanford, Inc., Richland, Washington.

WMP-21327, Rev. 0. 2004. *Performance Evaluation Report for Soil Vapor Extraction Operations at the 200-PW-1 Carbon Tetrachloride Site, Fiscal Year 2003*. PM Gent, Fluor Hanford, Inc., Richland, Washington.

WMP-26178, Rev. 0. 2005. *Performance Evaluation Report for Soil Vapor Extraction Operations at the 200-PW-1 Carbon Tetrachloride Site, Fiscal Year 2004*. VJ Rohay, Fluor Hanford, Inc., Richland, Washington.

WMP-26568, Rev. 0. 2005. *In Situ Redox Manipulation Second Quarter Fiscal Year 2005 Technical Memorandum*. Fluor Hanford, Inc., Richland, Washington.

WMP-28324, Rev. 0. 2006. *Data Quality Objectives Summary Report for Defining the Nature and Extent of Deep Groundwater Contamination in the 200-ZP-1 Operable Unit in the Vicinity of the Old Laundry Facility*. Fluor Hanford, Inc., Richland, Washington.

WMP-28389, Rev. 0. 2007. *T-Area Technetium-99 Data Quality Objectives Summary Report*. VG Rohay, Fluor Hanford, Inc., Richland, Washington.

WMP-28945. 2006. *Data Quality Objectives Summary Report in Support of the 200-BP-5 Groundwater Operable Unit Remedial Investigation/Feasibility Study Process*. GS Thomas, Fluor Hanford, Inc. Richland, Washington.

WMP-30426, Rev. 0. 2006. *Performance Evaluation Report for Soil Vapor Extraction Operations at the 200-PW-1 Carbon Tetrachloride Site, Fiscal Year 2005*. VJ Rohay, Fluor Hanford, Inc., Richland, Washington.

Yabusaki, SB, Y Fang, and SR Waichler. 2008. "Building Conceptual Models of Field-Scale Uranium Reactive Transport in a Dynamic Vadose Zone-Aquifer-River System." *Water Resources Research*, in press February 2008.